

**REMARKS**

Upon entry of the instant amendment, claims 1-21 will remain pending in the application, with claims 9-20 being withdrawn from consideration based on a restriction requirement of the Examiner, and remaining claims 1-8 and 21 standing ready for further action on the merits.

The amendments made herein to the claims do not incorporate new matter into the application as originally filed, since newly added claim 21 finds support in the original application at page 7, lines 5-9. Accordingly, entry of the instant amendment is respectfully requested.

***Verified English Translations of Priority Document***

Enclosed herewith is a verified English Translation of JP 2002-377288, upon which the Applicants claim priority under 35 USC § 119. JP 2002-377288 was filed in the Japan Patent Office on December 26, 2002.

***Examiner Initiated Interview/Restriction Requirement***

As indicated in the Office Action, the Examiner has required restriction in the matter of the instant application requiring election between the following two allegedly distinct inventions:

- I. Claims 1-8 drawn to a polishing composition, classified in class 51, subclass 308.
- II. Claims 9-20 drawn to method of polishing, classified in class 216, subclass 89.

Applicants affirm their prior telephonic provisional election of claims 1-8 on September 20, 2005, having been made with traverse. While claims 9-20 are now deemed drawn to a withdrawn/non-elected invention, rejoinder of claims 9-20 is respectfully requested upon allowance of claims 1-8.

The Examiner's statements in the Interview Summary and the Restriction requirement of September 20, 2005 are correct with regard to the subject matter under discussion at that time.

***Claim Rejections – 35 USC § 103(a)***

The Examiner has set forth five (5) separate rejections of claims 1-8 under the provisions of 35 USC § 103(a) over each of the following individual references: **Koichi et al. ‘175** (US 6,551,175), **Oshima ‘789** (US 2002/0194789), **Ota et al. ‘711** (US 2003/0110711), **Takashina et al ‘217** (US 2004/0040217), and **Oshima et al ‘146** (US 2004/0127146). Reconsideration and withdraw of each of these separate rejections is respectfully requested based on the following considerations.

***Legal Standard for Determining Obviousness***

To establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations.

The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art, not in applicant's disclosure. *In re Vaeck*, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991).

***Distinctions Over the Cited Art***

***Oshima ‘789***

The cited Oshima ‘789 reference has a publication date of December 26, 2002, and is assigned to Kao Corporation, which is also the assignee of the present invention. Notably, since the invention recited in the instant claims and the cited Oshima ‘789 reference had the same assignee (Kao Corporation) at the time of the latter invention, it follows that the Oshima ‘789 reference is not citable

against the instant claims as of its US filing date (April 24, 2002), due to the safe harbor provisions of 35 USC § 103(c). It is only citable as of its December 26, 2002 publication date.

The December 26, 2002 publication date of the Oshima '789 reference, is the same date as Applicant's priority date under 35 USC §119 to JP 2002-377288.

Accordingly based on the submission of the enclosed verified English translation of JP 2002-377288 (which provide full 35 USC 112, first paragraph support for the invention now being claimed), it is submitted that the cited Oshima '789 reference has been effectively antedated for all that it teaches and discloses.

***Oshima '146***

The cited Oshima '146 reference has a publication date of July 1, 2004, and is assigned to Kao Corporation, which is also the assignee of the present invention. Notably, since the invention recited in the instant claims and the cited Oshima '146 reference had the same assignee (Kao Corporation) at the time of the latter invention, it follows that the Oshima '146 reference is not citable against the instant claims as of its US filing date (December 4, 2003), due to the safe harbor provisions of 35 USC § 103(c). Instead, it is only citable as of its July 1, 2004 publication date.

The July 1, 2004 publication date of the Oshima '146 reference, is clearly after the December 5, 2003 filing date of the instant application in the USPTO, so that the rejection over the cited Oshima '146 reference must be withdrawn.

***Takashina et al '217***

The cited Takashina et al. '217 reference has a publication date of March 4, 2004, and is assigned to Kao Corporation, which is also the assignee of the present invention. Notably, since the

invention recited in the instant claims and the cited Takashina et al. '217 reference had the same assignee (Kao Corporation) at the time of the latter invention, it follows that the Takashina et al. '217 reference is not citable against the instant claims as of its US filing date (August 11, 2003), due to the safe harbor provisions of 35 USC § 103(c). Instead, it is only citable as of its March 4, 2004 publication date.

The March 4, 2004 publication date of the Takashina et al. '217 reference, is clearly after the December 5, 2003 filing date of the instant application in the USPTO, so that the rejection over the cited Takashina et al. '217 reference must be withdrawn.

***Koichi et al. '175***

In the instant invention, a cumulative volume frequency (V) of the abrasive is 60 or more when a particle size (R) is 40 nm (see Formula (1)).

In contrast, in the cited Koichi '175 reference, it is described that an especially favorable D10 value is 40-60 nm in Embodiment 1 (see column 4, lines 18-25) and that a favorable percentage of particles having a particle size of 40 nm or less is 3% or less in Embodiment 2 (see column 5, lines 27-33). Supporting these descriptions, in Examples I-1 to I-5 of the cited reference, an abrasive having particle size distribution of which D10 is 45 nm or more is used.

It can be reasonably supposed that the polishing compositions in the examples of the cited Koichi '175 reference would not satisfy Formulas (1) and (5) of the present invention. (In the cited reference, the particle size distribution is defined on a number basis so that it cannot be directly compared with the particle size distribution in the present invention defined on a weight or volume basis.)

As noted above, in the cited Koichi '175 reference, it is favorable that the ratio of particles having a particle size of 40 nm or less is low. This feature of the cited reference is opposite to the feature of the present invention requiring a specific amount or more of polishing particles having a particle size of 40 nm or less. Accordingly, the present invention is in no way rendered obvious by the cited Koichi '175 reference.

***Ota et al. '711***

The polishing compositions satisfying the particle size distribution defined in the Ota '711 reference are disclosed in the specification of the instant application as Comparative Examples 1 to 5. These comparative examples in the instant application correspond to the examples of the cited Ota '711 reference as indicated in the below table.

Examples of Ota et al. (US 2003/0110711)	$\alpha$ or $\beta$	$\gamma$	$\delta$	$\epsilon$ , $\eta$ , or $\theta$	$\xi$
Comp. Example of the present invention	1	2	3	4	5

As shown in Table 2 of the present application (see page 23), Example 1 to 10 satisfying the definition of particle size distribution in the present invention show remarkable effects in reducing surface roughness in comparison with Comparative Examples 1 to 5. That is, the present invention exhibits excellent effects which cannot be expected by the cited Ota '711 reference.

In addition, since the cited reference discloses combinations of monomodal abrasives, there is an open portion in the particle size distribution of the cited reference. Further, in the cited Ota '711 reference, the particle size distribution is defined on a number basis so that it cannot be directly

compared with the particle size distribution in the present invention, which is defined on a weight or volume basis.

It is not obvious to find a specific particle size distribution necessary for exhibiting unexpected effects based on such an uncomparable particle size distribution as noted above. Accordingly, the particle size distribution of the present invention is not rendered obvious by the cited Ota '711 reference.

Based on the above considerations, it is submitted that no motivation or teaching is found in the cited art of Koichi et al. '175 or Ota et al. '711 that would allow one of ordinary skill in the art arrive at the instant invention as claimed. Absent such motivation in the cited art the outstanding rejections cannot be sustained.

***Provisional Obviousness-Type Double Patenting Rejections***

Claims 1-2 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-6 of copending Application No. 10/637,568. Claims 1-8 have also been provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-6 of copending Application No. 10/726,581. Reconsideration and withdrawn of these provisional Obviousness-type double patenting rejections is respectfully requested based on the filing herewith of appropriate terminal disclaimers for obviating said rejections.

***Obviousness-Type Double Patenting Rejection***

Claims 1-8 have been rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-8 of U.S. Patent No. 6,910,952. Reconsideration and withdrawn of this

obviousness-type double patenting rejection is respectfully requested based on the filing herewith of appropriate terminal disclaimer for obviating said rejection.

### **CONCLUSION**

Based on the amendments and remarks made herein, the filing herewith of a verified English translation of Applicants priority document (JP 2002-377288), and the submission herewith of appropriate terminal disclaimers for overcoming obviousness-type double patenting rejections based on copending Application Nos. 10/637,568 and 10/726,581 and U.S. Patent No. 6,910,952, the Examiner is respectfully requested to issue a notice of allowance indicating that claims 1-8 and 21 are allowed and patentable under title 35 of the United States Code, the Examiner is further requested to rejoin withdrawn claims 9-20 and also indicate their allowability in the notice of allowance.

Should the Examiner have any questions concerning the present reply, he is respectfully requested to contact the undersigned at the telephone number provided.

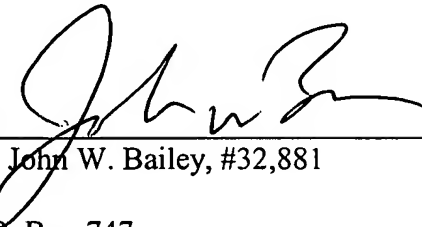
If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

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Respectfully submitted,

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Enclosures:

Verified English Translation of JP 2002-377288  
Terminal Disclaimer Over Copending Application Nos. 10/637,568, and 10/726,581.  
Terminal Disclaimer Over U.S. Patent No. 6,910,952.